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PATENT

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February 7, 2003
Date

Denise Sheridan
Denise Sheridan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Timothy B. Cowles et al.

Attorney Docket No. : 500792.03

Serial No. : 10/043,680

Group Art Unit : 2824

Filed : January 10, 2002

Examiner : Van Thu T. Nguyen

Confirmation No. : 9219

Date of Notice
of Allowance : January 15, 2003Title : REFRESH CONTROLLER AND ADDRESS REMAPPING CIRCUIT AND METHOD
FOR DUAL MODE FULL/REDUCED DENSITY DRAMSBox Issue Fee
Commissioner of Patents
Washington, DC 20231AMENDMENT AFTER ALLOWANCE
(UNDER 37 C.F.R. § 1.312)

Sir:

Applicants acknowledge receipt of the Notice of Allowance dated January 15, 2003.

In the Specification:

Please replace the paragraph beginning at page 16, line 26, with the following rewritten paragraph:

C1
As mentioned above, the column address buffers 34 are designed to remap one of the row address to a column address so that the SDRAM 20 is plug compatible with SDRAMs adapted to receive row addresses for M rows and column addresses for N/2 columns. With

DORSEY & WHITNEY LLP

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DATE: June 27, 2003 TOTAL # OF PAGES (INCLUDING THIS COVER SHEET): 9
TO: Van Thu Nguyen FAX #: 703-746-4263
FIRM NAME: TELEPHONE #:

FROM: Phoebe Pogson FAX #: (206) 903-8820
TELEPHONE #: (206) 903-8795 EMAIL: temp-pogson@dorsey.com

COMMENTS: FURTHER TO OUR CONVERSATION, PLEASE FIND ATTACHED A COPY OF THE AMENDMENT AFTER ALLOWANCE AND A COPY OF THE DATE STAMPED POST CARD SHOWING THAT THE AMENDMENT WAS RECEIVED BY THE PTO ON FEBRUARY 13, 2003.

SINCERELY,

PHOEBE POGSON

Original will be sent via:



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500792.03
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Washington, DC 20231

SENT: February 7, 2003
DUE: N/A

Kindly acknowledge receipt of the below-listed documents by placing
your receiving stamp hereon and mailing:

Fee Transmittal Sheet (+ copy); Amendment After Allowance; in re: Timothy B.
Cowles et al., USAN 10/043,680, filed January 10, 2002, allowed January 15, 2003, for
REFRESH CONTROLLER AND ADDRESS REMAPPING CIRCUIT AND METHOD
FOR DUAL MODE/FULL REDUCED DENSITY DRAMS.

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Date Stamp



DORSEY & WHITNEY LLP

FEE TRANSMITTAL SHEET (FOR FY 2002)

Complete if Known

Application No. 10/043,680
Filing Date January 10, 2002
First Named Inventor Timothy B. Cowles et al.
Group Art Unit 2824
Examiner Van Thu T. Nguyen
Atty. Docket Number 500792.03

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METHOD OF PAYMENT (Check One)

1. ☒ The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No.: 50-1266; Deposit Account Name: DORSEY & WHITNEY LLP

2. ☐ Check Enclosed

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	<input type="checkbox"/> Utility Filing Fee	
106	330	206	165	<input type="checkbox"/> Design Filing Fee	
108	740	208	370	<input type="checkbox"/> Reissue Filing Fee	
114	160	214	80	<input type="checkbox"/> Provisional Filing Fee	
Subtotal (1)					\$0

2. EXTRA CLAIM FEES

Current Claims	Prior	Extra	Fee	Fee Paid
Total 7	-	20	= 0 x \$18	= \$0
Ind. 3	-	4	= 0 x \$84	= \$0
Multiple Dependent Claims			x \$	= \$
Subtotal (2)				\$0

Large Entity		Small Entity		Fee Description	
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent Claim	
109	84	209	42	Reissue Independent claims over original patent	
110	18	210	9	Reissue claims in excess of 20 and over original patent	

FEE CALCULATION (Continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - Late filing fee or oath	\$
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	\$
136	130	236	130	Non-English specification	\$
147	2,520	247	2,520	For Filing a Request for Reexamination	\$
195	300	295	300	Publication (early or Republication)	\$
115	110	215	55	Extension for reply within 1st month	\$
116	400	216	200	Extension for reply within 2nd month	\$
117	920	217	460	Extension for reply within 3rd month	\$
118	1,440	218	720	Extension for reply within 4th month	\$
119	1,960	219	980	Extension for reply within 5th month	\$
120	320	220	160	Filing a brief in support of an appeal	\$
121	280	221	140	Request for oral hearing	\$
148	110	248	55	Terminal Disclaimer Fee	\$
140	110	240	55	Petition to revive - unavoidable	\$
141	1,280	241	640	Petition to revive - unintentional	\$
142	1,280	242	640	Utility/Reissue issue fee (+ advance copies)	\$
143	460	243	230	Design issue fee (+ advance copies)	\$
122	130	222	130	Petitions to the Commissioner	\$
123	50	223	50	Petitions related to provisional applications	\$
126	180	226	180	Submission of IDS	\$
156	40	256	40	Recording each patent assignment per property (times number of properties)	\$
129	740	229	370	Request for Continued Examination (RCE)	\$
Other fee (specify)					\$
Subtotal (3)					\$0
Total Amount of Payment:					\$0

Submitted by:

Name: Edward W. Bulchis

Reg. No.: 26,847

Telephone: (206) 903-8800

Signature: *Edward W. Bulchis*

Date: Feb. 6, 2003

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